Display Discrete or Experimental Data

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INTRODUCTION

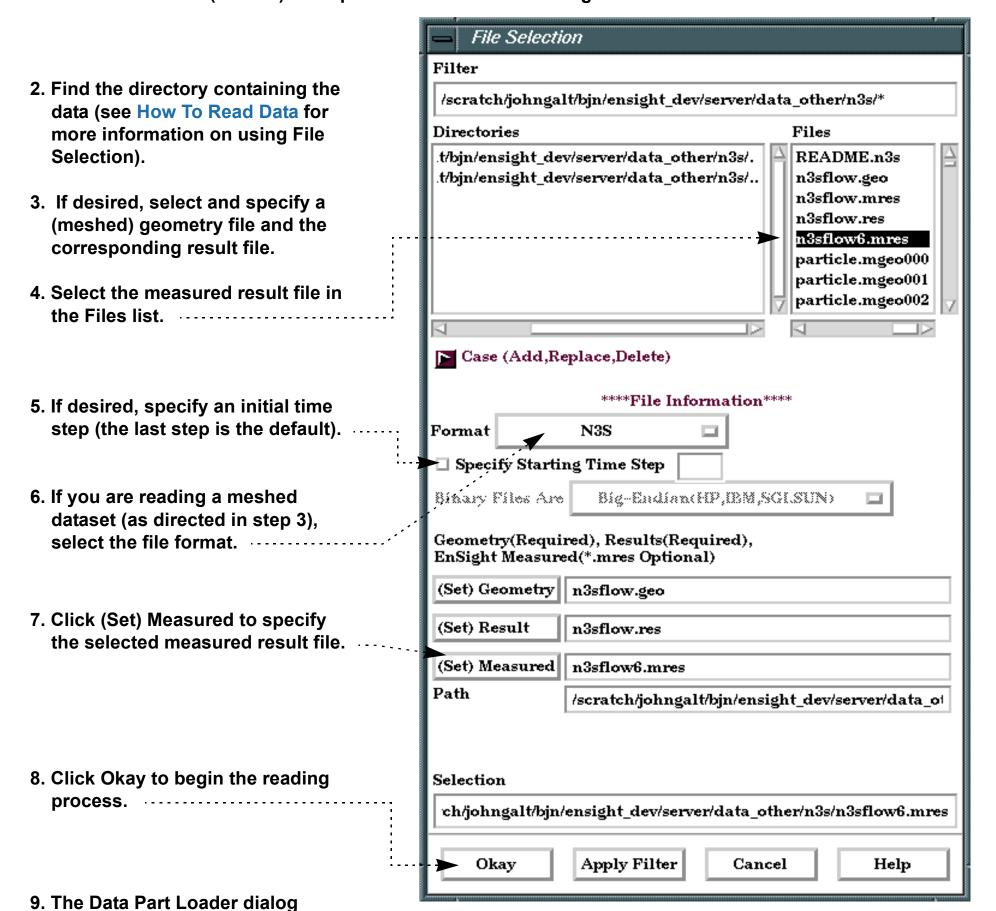
In addition to meshed data consisting of nodes and elements, EnSight also supports *discrete* or *measured* data. A measured dataset consists of a series of arbitrary points in space with no connectivity. Measured data can have associated variable data and can vary over time. Examples of measured data include fuel sprays, multi-phase flows, and experimental data.

Measured data cannot be loaded by itself – you must also specify a regular geometric mesh.

BASIC OPERATION

Measured data is read into EnSight via the same dialog used to read meshed data:

1. Select File > Data (Reader)... to open the File Selection dialog for data file selection.



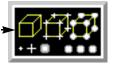


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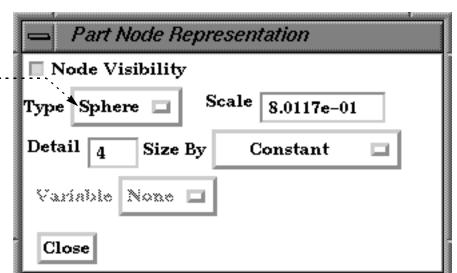
Measured data is represented as a single part. In the Main Parts list you should see a part named "Measured/Particle" after loading.

Measured data is represented as a set of unconnected nodes. You can use EnSight's ability to display nodes in various ways to accentuate measured data visualization. To change node display:

- 1. Select the desired measured data part in the Main Parts list.
- 2. Click Part in the Mode Selection area to enter Part Mode.
- 3. Click the Node Representation icon to open the Part Node Representation dialog.



- 4. Select the desired node display type (Dot, Cross, or Sphere). See below for details on each type.
- 5. If applicable, set desired values for Scale, Detail, Size By, and Variable.
- Dot: nodes are displayed as points.
- Cross: nodes are displayed as crosses and can be fixed size (size set by the Scale value) or sized based on a Variable (and scaled by the Scale value).
- Sphere: nodes are displayed as spheres and can be fixed size (size set by the Scale value) or sized based on a Variable (and scaled by the Scale value). Sphere detail controlled by Detail value.



OTHER NOTES

The file formats for measured data and the measured results file are detailed in **EnSight5 Measured/Particle File Format**.

Transient measured data can be animated using either the flipbook or keyframe animation capability.

You can load multiple measured datasets simultaneously by using EnSight's cases capability.

SEE ALSO

User Manual: EnSight5 Measured/Particle File Format